PATENT COOPERATION TREATY

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PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Form PCT/ISA/220					
58915WO006	ACTION as well as, where applicable, item 5 below.					
International application No. PCT/US04/32616	International filing date (day/month/year)(Earliest) Priority Date (day/month/year)01 October 2004 (01.10.2004)03 October 2003 (03.10.2003)					
Applicant 3M INOVATIVE PROPERTIES COMPANY						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report consists of a total of sheets.						
It is also accompanie	ed by a copy of each prior art document cite	ed in this report.				
 Basis of the Report Basis of the Report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 						
The international search was carried out on the basis of a translation of the international application						
usity and the new purchastide and/or amino acid sequence disclosed in the international application, see Box No. I.						
2. Certain claims were found unsearchable (See Box No. II)						
3. Unity of invention is lacking (See Box No. III)						
4. With regard to the title,						
the text is approved as sul						
the text has been established by this Authority to read as follows:						
5. With regard to the abstract,						
the text is approved as su	ibmitted by the applicant.	ity as it appears in Box No. IV. The applicant				
the text has been establis may, within one month f	hed, according to Rule 38.2(0), by this Author from the date of mailing of this international se	rity as it appears in Box No. IV. The applicant arch report, submit comments to this Authority.				
 6. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. 						
as suggested by	the applicant.					
as selected by this Authority, because the applicant failed to suggest a figure.						
as selected by t	his Authority, because this figure better charac	terizes the invention.				
b. none of the figures is to be published with the abstract.						

Form PCT/ISA/210 (first sheet) (January 2004)

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Box No. Π	Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
Box No. II Obset validits where external cannot be a stablished in respect of certain claims under Article 17(2)(a) for the following reasons: This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
3. X	Claims Nos.: 5-10,14,21,25,34,38,41,64,65 and 76-90 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule					
Box No. I	time time time is looking (Continuation of item 3 of first sheet)					
This Interna Please Sec (As all required additional search fees were timely paid by the applicant, this international search report covers all					
2.	searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite					
3.	payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark	on Protest The additional search fees were accompanied by the applicant's protest.					
	No protest accompanied the payment of additional search fees.					

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT

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International application No.

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			PCT/US04/3261	6			
 A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 31/4745, 31/496, 31/506, 31/5377, 31/541, 31/551; C07D 471/04, 401/14, 405/14; A61P 37/02 US CL : 514/293, 232.8, 253.03, 218, 214.03, 217.07, 273, 228.5; 546/82; 544/126, 60, 361; 540/575, 585, 597 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/293, 232.8, 253.03, 218, 214.03, 217.07, 273, 228.5; 546/82; 544/126, 60, 361; 540/575, 585, 597 							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE							
C. DOCUMENTS CONSIDERED TO B	E RELEVANT						
Category * Citation of document, with	h indication, where app	ropriate, of the re	elevant passages	Relevant to claim No. 1-4, 11-13, 15-20, 22-			
X P US 2004/0176367 A1 (GRIES	Citation of document, with indication, where appropriate, of the relevant passages US 2004/0176367 A1 (GRIESGRABER et al) 09 September 2004 (09.09.2004), see entire document, especially page 53, Example 22; pages 54-56. compound I-Id.						
A US 6,200,592 B1 (TOMAI et a V.	US 6,200,592 B1 (TOMAI et al) 13 March 2001 (13.03.2001), columns 3-6, Formulae I- V.						
A US 4,753,951 A (TAKADA c	US 4,753,951 A (TAKADA et al) 28 June 1988 (28.06.1988), columns 13-70.		91-93				
A US 4,698,348 A (GERSTER)	US 4,698,348 A (GERSTER) 06 October 1987 (06.10.1987), column 5, line 57.		91-93				
Further documents are listed in the con	ntinuation of Box C.	· · ·	tent family annex.				
* Special categories of cited documents:		date sci	d not in conflict with the ap	international filing date or priority plication but cited to understand the invention			
"A" document defining the general state of the art whic particular relevance		exa docume	le or theory underlying the ent of particular relevance;	the claimed invention cannot be			
"E" carlier application or patent published on or after the		conside	bred novel or cannot be con the document is taken alone	sidered to involve an Inventive step			
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means 		conside with on	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
"P" document published prior to the international filing date but later than the			ent member of the same pa				
Date of the actual completion of the international search		Date of mailing	Date of mailing of the international search report				
			APR 2005				
US March 2005 (08.05.2005)							
Mail Stop PCT, Atta: ISA/US Evelyn Huang + ROLLAT							
Commissioner for Patents P.O. Box 1450	-	(571) 272-1600					
P.O. Box 1430 Alexandria, Virginia 22313-1450 Economia No. (771) 272-1600							

Facsimile No. (703) 305-3230 Form PCT/ISA/210 (second sheet) (January 2004)

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63 and 66-75, drawn to a 4-aminoimidazoquinoline compound, its composition and method of use.

Group II, claim(s) 91-93, drawn to an imdazoquinoline compound of formula IX.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is drawn to an immunomodulating 4-aminoimidazoquinoline compound. Group II is drawn to an imidazoquinoline compound of Formula IX, which has psychostimulant activity.